

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P601281

Luminaire Tested: 14CGSB-25-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-233-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGSB-25-L850
Description: 1x4 CGSB AT 2500lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

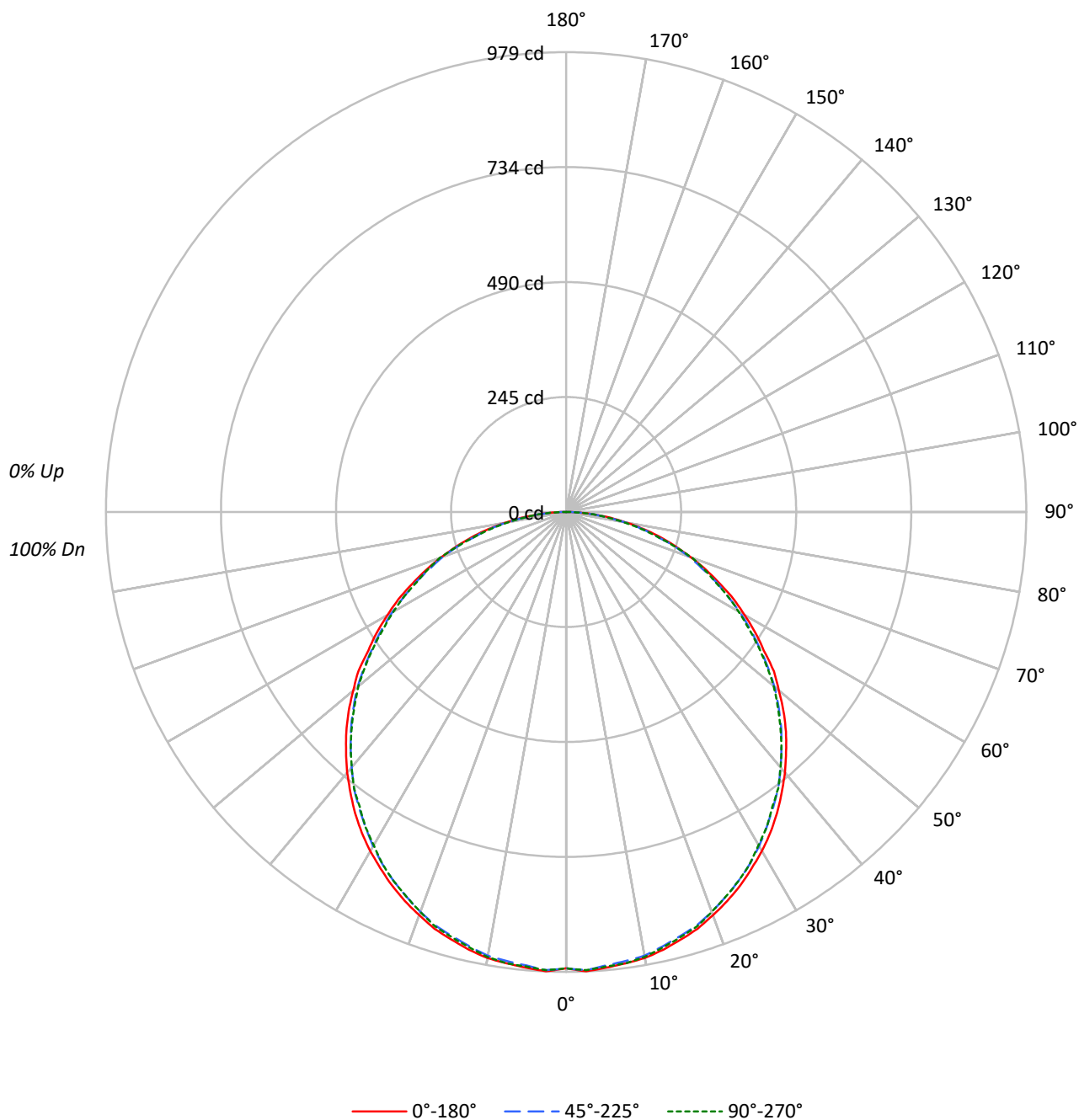
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2820.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	33	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2614	2614	2614
5°	2630	2617	2624
10°	2634	2621	2628
15°	2625	2605	2612
20°	2615	2594	2594
25°	2604	2575	2575
30°	2589	2552	2544
35°	2570	2523	2514
40°	2544	2493	2493
45°	2517	2461	2452
50°	2474	2424	2413
55°	2409	2352	2341
60°	2359	2294	2281
65°	2298	2236	2221
70°	2230	2192	2249
75°	2166	2065	2065
80°	2027	1990	1914
85°	1871	1794	1794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	3.3
10°-20°	264.8	9.4
20°-30°	400.6	14.2
30°-40°	482.7	17.1
40°-50°	501.2	17.8
50°-60°	451.4	16.0
60°-70°	348.8	12.4
70°-80°	212.5	7.5
80°-90°	65.7	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	757.7	26.9
0°-40°	1240.4	44.0
0°-60°	2193.0	77.8
0°-90°	2820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	974	971	969	969	971	93
15°	942	940	935	935	937	266
25°	877	874	867	865	867	404
35°	782	778	768	765	765	489
45°	661	656	647	644	644	510
55°	514	509	501	499	499	461
65°	361	354	351	346	349	358
75°	208	201	199	196	199	219
85°	61	61	58	56	58	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.3	971.3	971.3	971.3	971.3
2.5°	978.6	978.6	976.2	976.2	976.2
5°	973.8	971.3	968.9	968.9	971.3
7.5°	968.9	968.9	964.1	964.1	968.9
10°	964.1	961.7	959.2	959.2	961.7
12.5°	954.4	952.0	947.1	947.1	949.5
15°	942.3	939.9	935.0	935.0	937.4
17.5°	930.2	927.7	922.9	922.9	925.3
20°	913.2	910.8	905.9	903.5	905.9
22.5°	896.2	893.8	886.6	884.1	886.6
25°	876.9	874.4	867.2	864.8	867.2
27.5°	855.1	852.6	845.4	843.0	845.4
30°	833.3	828.4	821.2	816.3	818.7
32.5°	809.0	804.2	794.5	792.1	794.5
35°	782.4	777.6	767.9	765.4	765.4
37.5°	753.3	750.9	741.2	738.8	741.2
40°	724.3	719.4	709.7	707.3	709.7
42.5°	692.8	687.9	678.2	678.2	678.2
45°	661.3	656.4	646.8	644.3	644.3
47.5°	627.4	622.5	612.8	610.4	610.4
50°	591.0	586.2	578.9	576.5	576.5
52.5°	557.1	549.9	540.2	537.7	537.7
55°	513.5	508.7	501.4	499.0	499.0
57.5°	477.2	469.9	465.1	460.2	460.2
60°	438.4	431.2	426.3	423.9	423.9
62.5°	402.1	392.4	387.6	385.1	387.6
65°	360.9	353.7	351.2	346.4	348.8
67.5°	322.2	314.9	312.5	312.5	317.3
70°	283.4	276.1	278.6	271.3	285.8
72.5°	244.7	239.8	239.8	232.5	239.8
75°	208.3	201.1	198.6	196.2	198.6
77.5°	169.6	167.1	164.7	159.9	162.3
80°	130.8	135.6	128.4	121.1	123.5
82.5°	96.9	94.5	89.6	87.2	89.6
85°	60.6	60.6	58.1	55.7	58.1
87.5°	29.1	29.1	26.6	26.6	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)